

Helena

**Asset® RS**

ADDITIVE FOR STARTER FERTILIZERS

NOT A PLANT FOOD INGREDIENT

This product is not a fertilizer

Patents Pending

ACTIVE INGREDIENTS:

37.00% ..... Ammonium Carboxylates and polyacrylates

63.00% ..... INERT INGREDIENTS

100.00%

TOTAL

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See Inside Panel for Additional Precautionary Statements.

SN: 0405/0106

F224

MANUFACTURED FOR  
HELENA CHEMICAL COMPANY  
225 SCHILLING BOULEVARD, SUITE 300  
COLLIERSVILLE, TN 38017

**PRECAUTIONARY STATEMENTS****HAZARD TO HUMANS AND DOMESTIC ANIMALS****CAUTION**

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling. Do not apply this product in such a manner as to directly expose workers or other persons. In addition, follow precautionary statements on accompanying product's label(s).

**WHAT TO DO IN CASE OF CONTACT:**

**IF IN EYES:** Immediately flush eyes with clean water for at least 15 minutes. Call a physician if irritation persists.

**IF ON SKIN:** Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists.

**IF INHALED:** Move to fresh air. See a physician if irritation persists.

**IF SWALLOWED:** Give a large amount of water to drink, make person vomit and immediately call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

If contact is made with a spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" statement on the Product's label(s).

**STORAGE AND DISPOSAL**

Store in original container only. Keep packages tightly closed and do not allow water to be introduced to container contents. Do not store near heat or open flame. This product may freeze at temperatures less than 10°F. Thawing occurs readily at temperatures greater than 32°F.

**Container Disposal:** Empty packaging should be offered for recycling or disposal in accordance with Federal, State and local authorities. If packaging is burned, stay out of smoke. For help in chemical emergencies involving spill, leak, fire or exposure, call toll free 1-800-424-9300.

**GENERAL INFORMATION**

**BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITION OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.**

ASSET® RS is a fertilizer additive designed to enhance the solubility and absorption of plant nutritional products. In addition, ASSET® RS may improve the compatibility of fertilizer spray mixes and may reduce application equipment corrosion problems. ASSET® RS may also be useful in lowering the freeze point of some fertilizer mixtures. ASSET® RS is particularly effective with row starter fertilizers.

When used in conjunction with sound fertility practices, ASSET® RS may improve the performance of nutritional products used in wide range agricultural, ornamental and turf applications.

**NOTE:** This product is not a fertilizer and should not be used as a substitute.

**USE RECOMMENDATIONS**

ASSET® RS is compatible with most liquid fertilizer/herbicide spray mixes at manufacturers specified label rates. However, it is recommended that a "jar test" be performed prior to the actual application. In the event of fertilizer/herbicide compatibility problems, the addition of a stabilizing/compatibility agents are recommended. Best results are obtained when ASSET® RS is incorporated or injected in a zone or band in the soil with the fertilizer component at a minimum depth of two (2) to four (4) inches. The recommendations for the use of this product are based upon the best current information available.

**DOSAGE RECOMMENDATIONS**

To determine the proper amount of ASSET® RS to add to the fertilizer, multiply the recommended dosage rates below by the number of acres one ton of fertilizer will cover.

**Row or Band and Injection Applications:** Use ASSET® RS at the rate of five (5) to six (6) ounces per acre.

**Broadcast Applications:** Use ASSET® RS at the rate of ten (10) to eleven (11) ounces per acre.

**Warm Season Sod Production:** 1 quart per acre. Apply 3-5 weeks before lifting. **DRY GRANULAR FERTILIZER**

ASSET® RS may be impregnated on most nitrogen fertilizers or dry fertilizer blends that are composed of at least 50% of a combination of urea, nitrate or ammonium phosphate. Uniform application in the field is necessary to ensure optimum results.

**Use and Dosage Recommendations:** To ensure uniform coverage of the fertilizer during the ASSET® RS impregnation process, use a closed rotary drum mixer equipped with suitable internal spraying equipment. OR uniformly apply the ASSET® RS (see dosage recommendations above) with water to produce an adequate amount of solution to uniformly treat/impregnate the dry granular fertilizer.

**MIXING WITH ANHYDROUS AMMONIA**

ASSET® RS is readily soluble in liquid anhydrous ammonia. Carefully meter ASSET® RS into the anhydrous ammonia nurse tank or applicator tank by pumping it through an accurate, calibrated metering device into the liquid ammonia, either after filling or as the tank is being filled. Use a positive flow system or check valves, where appropriate, to prevent one product from entering the delivery tank of the other.

Introducing both products simultaneously into the nurse tank or applicator tank automatically provides the mixing required for a uniform, homogeneous solution. Meter 0.45 gallons (3.6 pints, or 4.2 lbs.) of ASSET® RS into each ton of liquid ammonia. (This is equivalent to 3.2 quarts of ASSET® RS per 3589 lbs. of anhydrous ammonia, or 80 lbs. of ASSET® RS per 34,000 lbs. of ammonia.) When used with anhydrous ammonia add ASSET® RS at 0.034 ounces per pound of nitrogen applied.

**CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES**

**Read the Conditions of Sale—Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.**

This label is believed to be reliable and should be followed carefully. Injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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**Disclaimer:** Always refer to the label on the product before using Helena or any other product. VID 1.19.06

**ASSET RS**

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 1-800-424-9300  
Effective Date: 10-05-99  
Product: ASSET RS

**I. IDENTIFICATION**

**Chemical Name:** PLANT NUTRITIONAL ADDITIVE.  
**Chemical Family:** NOT APPLICABLE, FORMULATED MIXTURE.  
**Formula:** NOT APPLICABLE, FORMULATED MIXTURE.  
**Synonyms:** NONE  
**CAS Number:** NOT APPLICABLE, FORMULATED MIXTURE.  
**EPA Number:** NONE REQUIRED

**II. PHYSICAL DATA**

**Boiling Point:** 212 DEGREES F.  
**Freezing Point:** 32 DEGREES F.  
**Spec Gravity:** 1.020 GMS/CC  
**Vapor Pressure:** NOT DETERMINED  
**Vapor Density:** NOT DETERMINED  
**Solubility:** SOLUBLE  
**Volatiles:** 38%  
**Evaporation:** NOT DETERMINED  
**Melting Point:** NOT APPLICABLE  
**Appearance:** CLEAR LIQUID, SEMI-SWEET ODOR.

**III. INGREDIENTS**

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF AMMONIA CARBOXYLIC ACIDS AND POLYACRYLIC ACID SALTS		100.00	15 MG/M3	MILD SKIN & EYE IRRITANT

**IV. FIRE AND EXPLOSION HAZARD**

**Flash Point:** NON-COMBUSTIBLE  
**Autoignition Temp:** NOT APPLICABLE  
**Flammable Limit:** NOT APPLICABLE  
**Extinguishing Media:** NON-COMBUSTIBLE LIQUID, USE EXTINGUISHING MEDIA FOR UNDERLYING CAUSE OF FIRE.  
**Special Fire Fight Proc:** FIREFIGHTERS SHOULD WEAR FULL-FACE, SELF CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING. USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.  
**Fire and Expl Hazard:** PREVENT HUMAN EXPOSURE TO FIRE, FUMES, SMOKE, AND PRODUCTS OF COMBUSTION. EVACUATE NON-ESSENTIAL PERSONNEL.

**V. HEALTH HAZARD**

**Carcinogen Information:** NONE CURRENTLY KNOWN.  
**ACUTE EFFECTS OF OVER EXPOSURE**  
**Swallowing:** INGESTION MAY CAUSE IRRITATION, GASTROINTESTINAL DAMAGE, HEADACHE, DIARRHEA, CONFUSION AND COMA.  
**Skin Absorption:** SKIN CONTACT MAY CAUSE SOME IRRITATION.  
**Inhalation:** INHALATION MAY CAUSE IRRITATION AND BREATHING DIFFICULTY.  
**Skin contact:** SKIN CONTACT MAY CAUSE IRRITATION.  
**Eye Contact:** EYE CONTACT WITH PRODUCT MAY CAUSE IRRITATION.  
**Chronic Effects:** NONE CURRENTLY KNOWN.  
**Other Hazard:** NONE CURRENTLY KNOWN.  
**EMERGENCY AND FIRST AID PROCEDURES**  
**Swallowing:** IF SWALLOWED, CALL A PHYSICIAN OR POISON CONTROL CENTER. DRINK 1 OR 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH FINGER.  
**Skin:** WASH SKIN WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

**Inhalation:** MOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF IRRITATION DEVELOPS.  
**Eyes:** FLUSH EYES WITH PLENTY OF WATER. CALL A PHYSICIAN IF IRRITATION PERSISTS.  
**Notes to Physician:** IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED TOWARD CONTROL OF THE SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.

**VI. REACTIVITY**

**Stability:** Stable  
**Conditions to Avoid:** NONE CURRENTLY KNOWN.  
**Polymerization:** Will Not Occur  
**Conditions to Avoid:** FIRE AND HIGH HEAT CONDITIONS.  
**Incompatibility material:** STRONG OXIDIZERS AND STRONG ALKALINE CHEMICALS.  
**Hazardous Combustion:** OXIDES OF NITROGEN, AMMONIA OR AMINES AND CARBON MONOXIDE.

**VII. SPILL OR LEAK PROCEDURES**

**Spill or Leak Proc:** RE-USE MATERIAL IF NOT CONTAMINATED. IF CONTAMINATED, ABSORB MATERIAL ON AN ABSORBENT AND PLACE IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. AVOID RUN-OFF TO GROUND WATER, SURFACE WATER OR SEWERS.  
**Waste Disposal Method:** THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.

**VIII. SPECIAL PROTECTION INFORMATION**

**Respiration:** IF FUMES OR VAPORS EXCEED TLV, USE A NIOSH/MSHA APPROVED RESPIRATOR.  
**Ventilation:** LOCAL EXHAUST SUFFICIENT.  
**Gloves:** IMPERVIOUS  
**Eyes:** CHEMICAL GOGGLES.  
**Other:** EMERGENCY SHOWER, EYE WASH STATION, IMPERVIOUS APRON AND FOOTWEAR

**IX. SPECIAL PRECAUTIONS**

**Special precaution:** KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR PONDS. STORE IN A SECURE, DRY, WELL-VENTILATED AREA, SEGREGATED FROM OXIDIZERS AND OTHER INCOMPATIBLE MATERIALS.  
**Other precaution:** NONE

**X. SHIPPING INFORMATION**

**Shipping name:** NOT REGULATED BY DOT, IATA OR IMDG.  
**Hazard Class:** NONE  
**Identification No:** NONE  
**Labels Required:** NONE REQUIRED  
**Placarding:** NONE REQUIRED  
**Freight Class:** COMPOUND, FERTILIZER (MANUFACTURED FERTILIZER) LIQUID, NOIBN

Chemical Name	Equivalent R.O.
NOT APPLICABLE	NOT APPLICABLE

**XI. GENERAL PRODUCT INFORMATION**

**National Fire Protection Association Rating:**  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)  
**Health:** 2  
**Fire:** 0  
**Reactivity:** 0  
**S.A.R.A. Title III Hazard Classification:** (Yes/No)  
**Immediate (Acute) Health:** Y  
**Delayed (Chronic) Health:** N  
**Sudden Release of pressure:** N  
**Fire:** N  
**Reactive:** N

Helena Chemical Company believes that the data contained herein is factual. This data is not to be taken as a warranty or representation of legal respon-

sibility. It is offered solely for your consideration, investigation and verification.

VID 7.31.03